

Please type a plus sign (+) inside this box



11/02/99

PTO/SB/05 (4/98)

09/30/2000, OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional application under 37 C.F.R. § 1.53(b))

Attorney Docket No. 98-1984

First Inventor or Application Identifier I. S. Zagon

Title Novel Nucleic Acid Molecules Encoding Opioid Growth Factor Receptors

Express Mail Label No. EK087383601IIS

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TOAssistant Commissioner for Patents
Box Patent Application
Washington DC 202311. * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)5. Microfiche Computer Program (Appendix)2. Specification [Total Pages 77]6. Nucleotide and/or Amino Acid Sequence submission
(if applicable, all necessary)

- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

- a. Computer Readable Copy
- b. Paper Copy (identical to computer copy)
- c. Statement verifying identity of above copies

3. Drawing(s) (35 U.S.C. 113) [Total Sheets 16]**ACCOMPANYING APPLICATION PARTS**4. Oath or Declaration [Total Sheets 2]

- 7. Assignment Papers (cover sheet & document(s))
- 8. 37 C.F.R. §3.73(b) Statement (when there is an assignee) Power of Attorney
- 9. English Translation Document (if applicable)
- 10. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
- 11. Preliminary Amendment
- 12. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
 - * Small Entity Statement filed in prior application, (PTO/SB/09-12) Status still proper and desired
- 13. Statement(s) Certified Copy of Priority Document(s) (if foreign priority is claimed)
- 14. Other: _____
- 15. Other: _____

NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. §1.27). EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. §1.28)

If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below in a preliminary amendment Continuation Divisional Continuation-in-part

of prior application No.: Claims priority to 60/106,879 filed 11/03/98

Group / Art Unit: _____

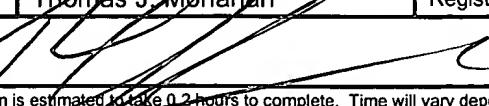
Prior application information: Examiner _____

For **CONTINUATION or DIVISIONAL APPS** only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**17. CORRESPONDENCE ADDRESS**

<input type="checkbox"/> Customer Number or Bar Code Label	(Insert Customer No. or Attach Bar code label here)		or	<input type="checkbox"/> Correspondence address below
--	---	--	----	---

Name	Thomas J. Monahan Intellectual Property Office				
Address	The Pennsylvania State University 113 Technology Center				
City	University Park	State	PA	Zip Code	16802-7000
Country	United States	Telephone	(814) 865-6279	Fax	(814) 865-3591

Name (Print / Type)	Thomas J. Monahan	Registration No. (Attorney/Agent)	29,835
---------------------	-------------------	-----------------------------------	--------

Signature				Date:	11/02/99
-----------	---	--	--	-------	----------

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENT TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

FEE TRANSMITTAL

Patent fees are subject to annual revision on October 1. These are the fees effective October 1, 1997. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.

					Complete if Known																																																																																																																																																																																																																					
					Application Number																																																																																																																																																																																																																					
					Filing Date		November 02, 1999																																																																																																																																																																																																																			
					First Named Inventor		I. S. Zagon																																																																																																																																																																																																																			
					Examiner Name																																																																																																																																																																																																																					
					Group / Art Unit																																																																																																																																																																																																																					
TOTAL AMOUNT OF PAYMENT		(\$)		1,547.00	Attorney Docket No.		98-1984																																																																																																																																																																																																																			
METHOD OF PAYMENT (check one)					FEE CALCULATION (continued)																																																																																																																																																																																																																					
					3. ADDITIONAL FEES																																																																																																																																																																																																																					
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account No. 16-1133</p> <p>Deposit Account Name </p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §§ 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 C.F.R. § 1.18 at the Mailing of the Notice of Allowance</p> <p>2. <input type="checkbox"/> Payment Enclosed <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>					<table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge – late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge – late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional application</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>760</td><td>246</td><td>380</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>760</td><td>249</td><td>380</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr> <td colspan="5">* Reduced by Basic Filing Fee Paid</td> <td colspan="2">SUBTOTAL (3)</td> <td>(\$)</td> <td>0.00</td> </tr> <tr> <td colspan="2">SUBMITTED BY</td> <td colspan="4"></td> <td colspan="3">Complete (if applicable)</td> </tr> <tr> <td colspan="2">Typed or Printed Name</td> <td colspan="4">Thomas J. Mopahap</td> <td colspan="2">Reg. Number</td> <td>29,835</td> </tr> <tr> <td colspan="2">Signature</td> <td colspan="2"></td> <td>Date</td> <td></td> <td colspan="2">Deposit Account User ID</td> <td></td> </tr> </tbody> </table>				Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge – late filing fee or oath		127	50	227	25	Surcharge – late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	380	216	190	Extension for reply within second month		117	870	217	435	Extension for reply within third month		118	1,360	218	680	Extension for reply within fourth month		128	1,850	228	925	Extension for reply within fifth month		119	300	219	150	Notice of Appeal		120	300	220	150	Filing a brief in support of an appeal		121	260	221	130	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive – unavoidable		141	1,210	241	605	Petition to revive – unintentional		142	1,210	242	605	Utility issue fee (or reissue)		143	430	243	215	Design issue fee		144	580	244	290	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional application		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))		149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____						Other fee (specify) _____						* Reduced by Basic Filing Fee Paid					SUBTOTAL (3)		(\$)	0.00	SUBMITTED BY						Complete (if applicable)			Typed or Printed Name		Thomas J. Mopahap				Reg. Number		29,835	Signature				Date		Deposit Account User ID		
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																					
105	130	205	65	Surcharge – late filing fee or oath																																																																																																																																																																																																																						
127	50	227	25	Surcharge – late provisional filing fee or cover sheet																																																																																																																																																																																																																						
139	130	139	130	Non-English specification																																																																																																																																																																																																																						
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																																																						
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																						
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																						
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																																						
116	380	216	190	Extension for reply within second month																																																																																																																																																																																																																						
117	870	217	435	Extension for reply within third month																																																																																																																																																																																																																						
118	1,360	218	680	Extension for reply within fourth month																																																																																																																																																																																																																						
128	1,850	228	925	Extension for reply within fifth month																																																																																																																																																																																																																						
119	300	219	150	Notice of Appeal																																																																																																																																																																																																																						
120	300	220	150	Filing a brief in support of an appeal																																																																																																																																																																																																																						
121	260	221	130	Request for oral hearing																																																																																																																																																																																																																						
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																						
140	110	240	55	Petition to revive – unavoidable																																																																																																																																																																																																																						
141	1,210	241	605	Petition to revive – unintentional																																																																																																																																																																																																																						
142	1,210	242	605	Utility issue fee (or reissue)																																																																																																																																																																																																																						
143	430	243	215	Design issue fee																																																																																																																																																																																																																						
144	580	244	290	Plant issue fee																																																																																																																																																																																																																						
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																																						
123	50	123	50	Petitions related to provisional application																																																																																																																																																																																																																						
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																																																																						
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																						
146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																																						
149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																																						
Other fee (specify) _____																																																																																																																																																																																																																										
Other fee (specify) _____																																																																																																																																																																																																																										
* Reduced by Basic Filing Fee Paid					SUBTOTAL (3)		(\$)	0.00																																																																																																																																																																																																																		
SUBMITTED BY						Complete (if applicable)																																																																																																																																																																																																																				
Typed or Printed Name		Thomas J. Mopahap				Reg. Number		29,835																																																																																																																																																																																																																		
Signature				Date		Deposit Account User ID																																																																																																																																																																																																																				

Burden Hour Statement: This form is estimated to take 0.7 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Practitioner's Docket No.: 98-1984

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **I. S. Zagon**

Serial No.: Group No.:

Filed: **November 2, 1999** Examiner:

For: **NOVEL NUCLEIC ACID MOLECULES ENCODING OPIOID GROWTH FACTOR
RECEPTORS**

**Assistant Commissioner for Patents
Washington D.C. 20231**

EXPRESS MAIL CERTIFICATE

"Express Mail" label number: **EK087383601US**

Date of Deposit: **November 02, 1999**

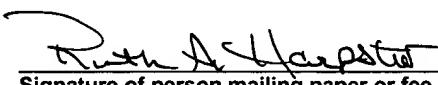
I hereby state that the following *attached* paper or fee:

1 Fee Transmittal Form (in duplicate)
1 Utility Patent Application
1 Small Entity Statement
1 unexecuted Declaration
77 pages of Specifications (including Sequence Listing)
16 sheets of Drawings
1 Return Receipt Postcard

Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Ruth A. Harpster

Typed or printed name of person mailing paper or fee


Ruth A. Harpster

Signature of person mailing paper or fee

NOTE: The label number need not be placed on each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter for a fee, along with the certificate of mailing by "Express Mail". Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings, it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label is placed.

(Express Mail Certificate [8-3])